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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

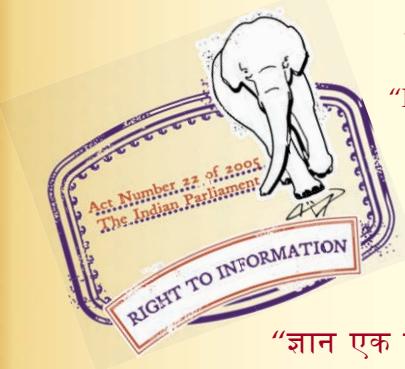
“Step Out From the Old to the New”

IS 7710 (1975): Snare, Tonsil, Eve's Pattern [MHD 4: Ear, Nose and Throat Surgery Instruments]

“ज्ञान से एक नये भारत का निर्माण”

Satyanaaranay Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartṛhari—Nītiśatakam

“Knowledge is such a treasure which cannot be stolen”





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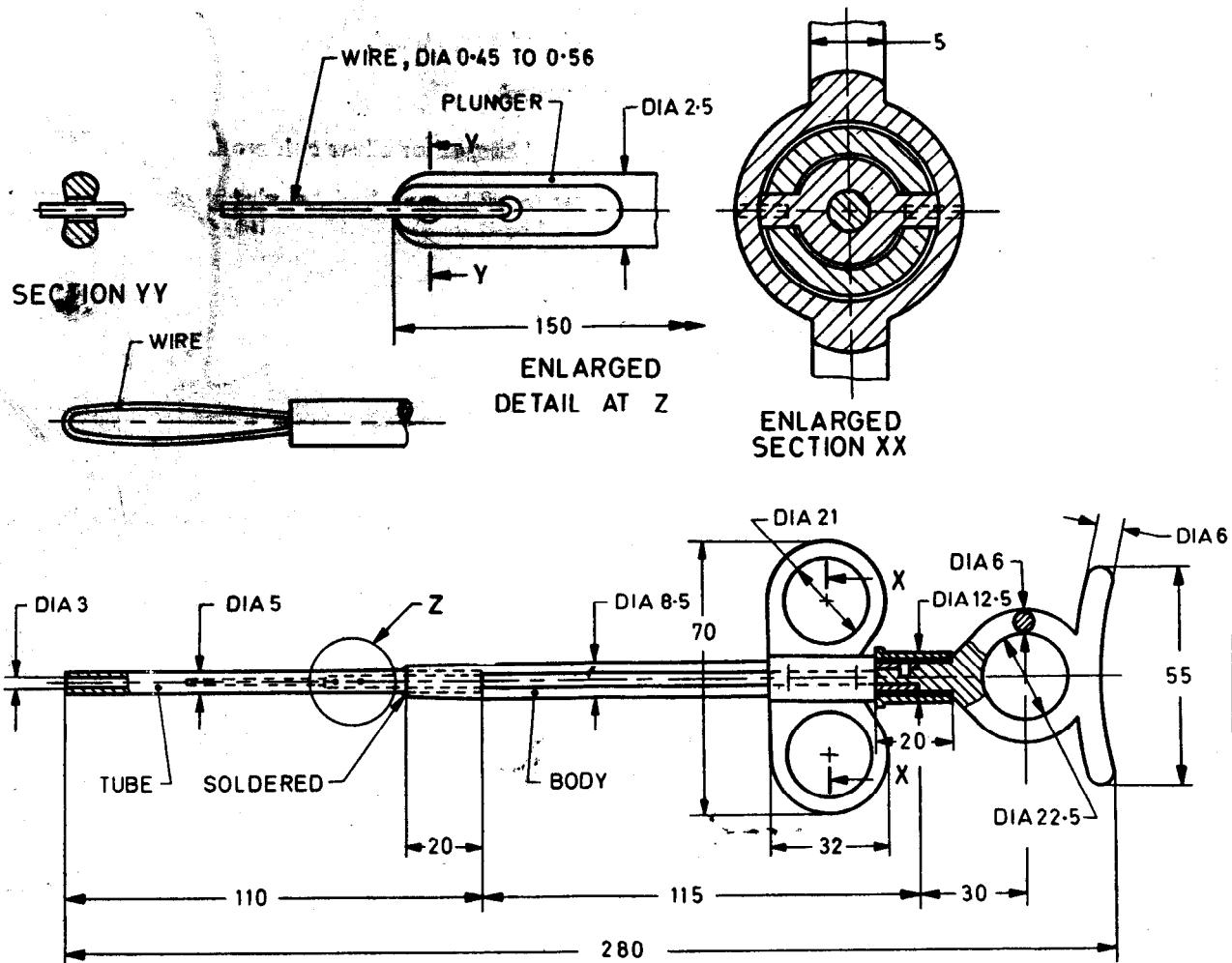
Indian Standard

## SPECIFICATION FOR SNARE, TONSIL, EVE'S PATTERN

**1. Scope** — Dimensional and other requirements for Eve's pattern tonsil snare used in E.N.T. surgery.

**2. Shape and Dimensions** — As shown in Fig. 1.

**2.1** A deviation of  $\pm 2.5$  percent shall be allowed on all dimensions.



All dimensions in millimetres.

FIG. 1 SNARE, TONSIL, EVE'S PATTERN

### 3. Materials

**3.1** All the metallic components except the plunger and wire shall be manufactured from brass conforming to Designation CuZn40 of Table 1 of IS : 4170-1967 'Specification for brass rods for general engineering purposes' or stainless steel conforming to Designation 04Cr18Ni10 or 07Cr18Ni9 of Table 5 of IS : 1570 (Part V)-1972 'Schedules for wrought steels: Part V Stainless and heat-resisting steels (first revision)'.

**3.2** The plunger shall be manufactured from stainless steel conforming to Designation 30Cr13 of IS : 6603-1972 'Specification for stainless steel bars and flats'.

**3.3** The wire shall be of suitable hard drawn stainless steel conforming to Designation 07Cr18Ni9 or 04Cr18Ni10 of Table 8 of IS : 6528-1972 ' Specification for stainless steel wire '.

#### **4. Workmanship and Finish**

**4.1** The snare shall be finished smooth and free from burrs, pits cracks and surface flaws.

**4.2** The loop of the thumb shall be removable so that the sliding component may be withdrawn to replace the wire.

**4.3** The sliding shall be smooth and without jerk.

**4.4** The finger loops shall be smooth and properly rounded.

**4.5** The wire shall be of uniform diameter and shall be free from kinks, rust and other defects.

**4.6** The stainless steel parts shall be brightly polished and passivated.

**4.7** The brazing or silver soldering shall be neat and sound.

**4.8** The tube shall be force fit or screwed to the body and brazed or silver soldered.

**4.9** All components except the wire and plunger if made of brass shall be plated chromium over nickel conforming to Service Grade 2 of IS : 4827-1968 ' Specification for electroplated coatings of nickel and chromium on copper and copper alloys '.

**4.10** The hardness of the plunger shall be 410 to 470 HV.

#### **5. Test**

**5.1** *Corrosion Resistance* — The instrument shall satisfy the boiling and autoclaving test as mentioned in IS : 7531-1975 ' Method for boiling and autoclaving test for corrosion resistance of stainless steel surgical instruments '.

**5.2** Subject to agreement between the purchaser and the supplier the instrument may be put to the following test:

*Copper Sulphate Test* — Scrub the sample with soap and warm water, rinse in hot water and then dip in 95 percent ethyl alcohol. Dry the sample. Immerse in copper sulphate solution at room temperature for 6 min and wash off with fresh water or wet cotton wool. Composition of the solution shall be as follows:

Copper sulphate ( CuSO <sub>4</sub> .5H <sub>2</sub> O )	4.0 g
Sulphuric acid ( H <sub>2</sub> SO <sub>4</sub> ) ( sp gr 1.84 )	10.0 g
Distilled water [ see IS : 1070-1960 Specification for water, distilled quality ( revised ) ]	90.0 ml

No red stains or spots on the sample shall be allowed but dulling of the polished surface may be permitted.

**6. Marking** — The snare shall be clearly and indelibly marked with the manufacturer's name, initials or recognized trade-mark.

**6.1 ISI Certification Marking** — Details available with the Indian Standards Institution.

**7. Packing** — The wire for the snare shall be coated with a thin film of non-corrosive mineral oil. The snare shall be wrapped in moisture proof paper and packed in cardboard cartons. The instrument may also be packed as agreed to between the purchaser and the supplier.